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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,386	08/30/2001	Masud Beroz	TESSERA 3.0-176 DIV	1049
530	7590 06/06/2005		EXAMINER	
LERNER, D	DAVID, LITTENBERG,	TALBOT, BRIAN K		
	Z & MENTLIK		ARTIBUT	DARED MER (DED
600 SOUTH AVENUE WEST			ART UNIT	PAPER NUMBER
WESTFIELD	D, NJ 07090	1762		
			DATE MAILED: 06/06/200	.

DATE MAILED: 06/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/942,386	BEROZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brian K. Talbot	1762				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Ma	Responsive to communication(s) filed on 21 March 2005.					
2a)⊠ This action is FINAL . 2b)□ This	2b)☐ This action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) <u>5-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	• •					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)				
S. Patent and Trademark Office	J Julei					



Application/Control Number: 09/942,386

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- The Request for reconsideration filed 3/21/05 has been considered and entered. Claims
 1-10 remain in the application.
- 2. This application contains claims 5-10 drawn to an invention nonelected with traverse in Paper No. 4. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carey et al. (5,597,469) in combination with either Yeh et al. (5,803,340) or Pierson (5,938,106).

Carey et al. (5,597,469) teaches applying solder through a soldermask to a substrate having solder-wettable pads. The solder is reflowed and solidified to form the contact. Carey et al. (5,597,469) teaches applying solder-wettable material to the soldermask prior to applying the solder thereby forming a soldermask having both solder-wettable areas and non solder-wettable areas. Carey et al. (5,597,469) teaches non-solder wettable metal films such as chromium can be used as mask (16) (col. 6, lines 35-45).

Carey et al. (5,597,469) fails to teach cooling the solder to solidify to solder into a solder ball.

Yeh et al. (5,803,340) or Pierson (5,938,106) teach cooling applied solder to solidify in solder balls.

Yeh et al. (5,803,340), (abstract, Figs. 1-2 and col. 4, lines 1-10) or Pierson (5,938,106), (abstract, Figs. 3-4 and col. 4, lines 20-30) teach cooling the solder to solidify the solder into a ball.

Therefore, it would have been obvious for one skilled in the art at the time the invention was made to have modified Carey et al. (5,597,469) process by cooling the applied solder as evidenced by either Yeh et al. (5,803,340) or Pierson (5,938,106) with the expectation of achieving similar results.

Response to Amendment

5. Applicant's arguments filed 3/21/05 have been fully considered but they are not persuasive.

Applicants argued that the prior art fails to teach the claimed invention.

The Examiner disagrees as detailed in the rejection above. As noted, the mask (16) can be made of an electrically conductive material such as chromium.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time 6. policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian K Talbot Primary Examiner Art Unit 1762

Kall 6/1/05

BKT